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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/734,072	12/11/2000	Erik B. Christensen	146960.1/40062.72US01	3866

7590 08/11/2005

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EXAMINER

SHRADER, LAWRENCE J

ART UNIT	PAPER NUMBER
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2193

DATE MAILED: 08/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/734,072

Applicant(s)

CHRISTENSEN ET AL.

Examiner

Lawrence Shrader

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 June 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,7,8,13,14, and 19 - 27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,7,8,13,14, and 19 - 27 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

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### **DETAILED ACTION**

1. This action is in response to the amendment filed on June 21, 2005.
2. The Applicant's argument has been fully considered, but it was not persuasive.
3. Claims 3, 4, 9, 10, 15, 16, and 28 – 30 have been canceled at the request of the Applicant. Claims 1, 2, 7, 8, 13, 14, and 19 – 27 remain rejected and repeated below.

### **DETAILED ACTION**

#### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 2, 7, 8, 13, 14, and 19 – 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fowlow et al., U.S. Patent 6,189,138 (hereinafter referred to as Fowlow) in view of Goldberg et al., U.S. Patent 6,571,232 (hereinafter referred to as Goldberg).

#### **In regard to claim 1:**

*"dragging a graphical representation for a server processing resource from a server explorer module to a visual design surface module to add a processing item to a programmable data object being created in the visual design surface module, the server*

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*processing resource including at least one of a message queue, a file watching process, an event manager, a print server process, a file system, and a database;"*

Fowlow discloses a drag and drop function wherein a component representing software resources on a distributed object system (column 9, lines 45 – 47) is selected and dragged from one panel and dropped onto another panel being a worksheet (visual design surface) where the object component is manipulated in an application construction (column 11, lines 29 – 46).

*"identifying data schema associated with the server processing resource added to the programmable data object;"*

Fowlow discloses a drag and drop function that allows a user to configure objects in a visual design surface giving the developer detailed information about the objects (column 12, lines 20 – 24), but does not specifically disclose identification of a data schema associated with a resource. However, Goldberg discloses identification of a database schema associated with a server resource (column 2, lines 9 – 37; e.g., Figure 3). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the drag and drop feature for building applications in the Fowlow invention with the identification of a database schema in the Goldberg invention because the Fowlow invention discloses that detailed information about a resource is available to the developer (column 9, lines 54 – 55) in the worksheet (a visual design surface), and one skilled in the art would logically include a data schema if a database resource was selected in a tiered distributed object system as taught by Goldberg (column 2, lines 17 – 37).

*"creating a typed dataset containing the data structures corresponding to the data schema associated with the server processing resource;"*

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Fowlow discloses a drag and drop function that allows a user to configure objects in a visual design surface giving the developer detailed information about the objects, but does not disclose a dataset containing data structures corresponding to the resource schema. However, Goldberg discloses generation of query objects based on a schema of an underlying database (column 2, lines 15 – 31; column 3, lines 13 – 19). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the drag and drop function allowing a user to configure objects in a visual design surface giving the developer detailed information about the objects in the Fowlow invention with the generation of query objects based on a schema on an underlying database in the Goldberg invention because the Fowlow invention discloses that detailed information about a resource is available to the developer (column 9, lines 54 – 55) in the worksheet (a visual design surface), and one skilled in the art would logically include a data schema if a database resource was selected in a tiered distributed object system as taught by Goldberg (Abstract; column 2, lines 17 – 37).

*“creating a command adapter to provide data transfer commands within the programmable data object between the programmable data object and the server processing resource;”*

Fowlow discloses that a distributed object system typically includes an object request broker to provide transport mechanisms for communications between a client and a server (column 14, lines 24 – 58; e.g. Figure 10).

*“creating a data transfer connection between the programmable data object and the server processing resource.”*

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Fowlow discloses that a distributed object system typically includes an object request broker to provide transport mechanisms for communications between a client and a server (column 6, lines 16 – 21 and 30 – 37).

*"inserting a database connection module that creates a data transfer connection between the programmable data object and a database when the dragged item is a database table within the database..."*

Fowlow teaches a means to insert connections among modules, but does not specifically teach that the dragged item is a database table. However, Goldberg teaches query objects of schemas including database tables (column 3, lines 37 – 54). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the insertion of connections among modules in a visual design surface as taught by Fowlow with the generation of query objects based on a schema on an underlying database, including tables in the Goldberg invention, because one skilled in the art would be motivated to include all relevant features of the database that require generation of code for an interface of a query object as taught by Goldberg (Abstract) in a visual tool designed to construct object-oriented applications as taught by Fowlow.

*"...wherein the database connection module comprises:*

*a data connection object for creating and managing the data transfer connection between the programmable data object and the database;*

Fowlow teaches implementation of relationships among objects when the application is run (Abstract; column 4, lines 45 – 60)

*a managed resource module for provides the data connection object with address and identification information to establish that data transfer connection;*

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Fowlow discloses that a distributed object system typically includes an object request broker to provide transport mechanisms for communications between a client and a server (column 6, lines 16 – 21 and 30 – 37).

*a persistent data storage for maintaining this address and identification information used by the managed resource module."*

See Fowlow Figure 1.

*"...editing the processing items within the visual design surface module;*

See Fowlow column 4, lines 18 – 26.

*updating the processing items edited within visual design surface module;*

See Fowlow column 4, lines 35 – 43.

*updating the typed dataset within visual design surface module;*

See Fowlow column 4, lines 26 – 34.

*updating the command adapters within the visual design surface module;*

See Fowlow column 4, lines 26 – 34.

*identifying any other processing items containing references to data structures and functions edited;*

See Fowlow column 4, lines 26 – 34.

*updating the identified items containing references to data structures and functions edited to make all references consistent with each other."*

See Fowlow column 4, lines 26 – 34.

**In regard to claim 2, incorporating the rejection of claim 1:**

*"...creating additional initialization methods to support the items added to the programmable data object."*

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See Fowlow, column 11, lines 20 – 46.

**In regard to claim 7:**

Claim 7 (a system claim) is rejected for the same reasons put forth in the rejection of claim 1 (a corresponding method claim) with the following differences also found in the Fowlow reference:

*"a memory module; (Figure 3)*

*a user interface module; (Figure 4)*

*a mass storage system; (Figure 1)*

**In regard to claim 8, incorporating the rejection of claim 7:**

Claim 8 (a system claim) is rejected for the same reasons put forth in the rejection of claim 2 (a corresponding method claim).

**In regard to claim 13:**

Claim 13 (a computer program product claim) is rejected for the same reasons put forth in the rejection of claim 1 (a corresponding method claim).

**In regard to claim 14, incorporating the rejection of claim 13:**

Claim 14 (a computer program product claim) is rejected for the same reasons put forth in the rejection of claim 2 (a corresponding method claim).



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**In regard to claim 19:**

*"a server explorer module for presenting one or more processing resources present on a server to a programmer for use in creating a programming object class;*

See the Fowlow Abstract, Figure 5, and column 11, lines 22 – 35).

*"a visual design surface module for performing the operations associated with creating, editing, and saving the programming object, the visual design surface module comprising:*

*a drag/drop module for enabling a programmer to select a server resource from the server explorer module and place the selected server resource within a data object on the visual design surface module, the server processing resource including at least one of a message queue, a file watching process, an event manager, a print server process, a file system, and a database;*

Fowlow discloses a drag and drop function wherein a component representing software resources on a distributed object system (column 9, lines 45 – 47) is selected and dragged from one panel and dropped onto another panel being a worksheet (visual design surface) where the object component is manipulated in an application construction (column 11, lines 29 – 46).

*a command adapter function generation module for generating a data processing object associated with the drag and drop of a server processing resource;*

The Fowlow invention generates code corresponding to the connection (resource) in the design surface (column 11, lines 37 – 63).

*a typed dataset generation module for generating typed dataset object associated with the drag and drop of a server processing resource;*

Fowlow discloses a drag and drop function that allows a user to configure objects in a visual design surface giving the developer detailed information about the objects, but does not disclose a dataset containing data structures corresponding to the resource schema. However,

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Goldberg discloses generation of query objects based on a schema on an underlying database (column 2, lines 15 – 31; column 3, lines 13 – 19). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the drag and drop function allowing a user to configure objects in a visual design surface giving the developer detailed information about the objects in the Fowlow invention with the generation of query objects based on a schema on an underlying database in the Goldberg invention because the Fowlow invention discloses that detailed information about an object resource is available to the developer (column 9, lines 54 – 55) in the worksheet (a visual design surface), and one skilled in the art would logically include a data schema if a database resource was selected in a tiered distributed object system as taught by Goldberg (Abstract; column 2, lines 17 – 37).

*an init generation module for generating the set of data processing functions and methods associated with the drag and drop of a server resource;*

The Fowlow invention generates code corresponding to the connection (resource) in the design surface (column 11, lines 37 – 63).

*a properties edit module for retrieving the properties and source code for the various objects within the visual design surface module for editing.*

See Fowlow column 4, lines 18 – 26 teaching a composition workspace for editing.

*"a database connection module for creating a data transfer connection between the programmable data object and a database when the dragged item is a database table within the database..."*

Fowlow teaches a means to insert connections among modules, but does not specifically teach that the dragged item is a database table. However, Goldberg teaches query objects of schemas including database tables (column 3, lines 37 – 54). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the insertion of

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connections among modules in a visual design surface as taught by Fowlow with the generation of query objects based on a schema on an underlying database, including tables in the Goldberg invention, because one skilled in the art would be motivated to include all relevant features of the database that require generation of code for an interface of a query object as taught by Goldberg (Abstract) in a visual tool designed to construct object-oriented applications as taught by Fowlow.

*"...wherein the database connection module comprises:*

*a data connection object for creating and managing the data transfer connection between the programmable data object and the database;*

Fowlow teaches implementation of relationships among objects when the application is run (Abstract; column 4, lines 45 – 60)

*a managed resource module for provides the data connection object with address and identification information to establish that data transfer connection;*

Fowlow discloses that a distributed object system typically includes an object request broker to provide transport mechanisms for communications between a client and a server (column 6, lines 16 – 21 and 30 – 37).

*a persistent data storage for maintaining this address and identification information used by the managed resource module."*

See Fowlow Figure 1.

*a Properties Retrieval module for retrieving the properties and source code for the various objects within the visual design surface module 402 for editing;*

Fowlow teaches that properties and code are retrieved within the visual design surface for editing (column 13, lines 17 – 30).

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*a User Interface module for presenting the properties and source code to a programmer, and accepting edits from the programmer;*

See Fowlow column 13, lines 17 – 30.

*a class update module for identifying all other items within the visual design surface module that are affected by the changes made to the edited item, updating the identified items consistent with the edits made to the edited item."*

See Fowlow wherein all items affected by an update are identified and updated (column 11, lines 1 – 63).

**In regard to claim 20**, incorporating the rejection of claim 19:

*"...the drag and drop module comprises:*

*an explorer interface module to select a server resource from the server explorer module and place it within a data object within the visual design surface module;*

Fowlow discloses the selection of a component from one module and placing it on a visual design surface into a part representing an object (Abstract, Figure 5).

*a user interface module to perform the visual display and command input operations associated with the drag/drop operation;*

In the Fowlow invention, the user interfaces with the visual display including inputs associated with the drag and drop operation (Figure 5, column 11, lines 27 – 46).

*a class generation module to cause the visual design surface module to perform the operations to complete the drag/drop process of a server resource onto the visual design surface module."*

See Fowlow column 11, lines 1 – 28.

**In regard to claim 21**, incorporating the rejection of claim 19:

*"..the drag/drop module further causes the other processing modules in the visual design surface module 402 to perform their operations to complete the drag/drop process of a server resource onto the visual design surface module."*

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See Fowlow column 11, lines 29 – 56.

**In regard to claim 22**, incorporating the rejection of claim 19:

*"...the command adapter function generation module comprises:*

*a GetDS module for generating a GetDataSet function that fills a typed dataset with data obtained from a corresponding database;*

*an updateDS module for generating an UpdateDataSet function that updates a database using the data stored within the typed dataset."*

Fowlow does not teach database access functions, but Goldberg teaches a query object with database query commands (column 2, lines 38 – 43), including select (getDS) and update (updateDSs). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the drag and drop function allowing a user to configure objects in a visual design surface giving the developer detailed information about the objects in the Fowlow invention with the generation of query objects based on a schema of an underlying database in the Goldberg invention, because the Fowlow invention discloses that detailed information about an object resource is available to the developer (column 9, lines 54 – 55) in the worksheet (a visual design surface), and one skilled in the art would logically include a data schema and database queries if a database resource was selected in a tiered distributed object system as taught by Goldberg (Abstract; column 2, lines 17 – 37).

**In regard to claim 23**, incorporating the rejection of claim 19:

*"...the command adapter function generation module further accepts an updated command adapter module that has been edited by the properties edit module and generates the updated source code for the functions within the command adapter modules."*

See Fowlow column 11, lines 29 – 56.

**In regard to claim 24, incorporating the rejection of claim 19:**

*"...the typed dataset generation module comprises:*

*a Table Schema module for generating the table records from the database schema within the dataset object; and*

*a Relations module for generating the relationship data for the fields within the records within the dataset based upon the corresponding relationship data from the database;*

Fowlow discloses a drag and drop function that allows a user to configure objects in a visual design surface giving the developer detailed information about the objects, but does not disclose a dataset containing data structures corresponding to the resource schema or relations for the fields within the dataset. However, Goldberg discloses generation of query objects based on a schema on an underlying database (Abstract; column 2, lines 17 – 37) generation of relationship data for the fields (column 3, lines 40 – 45). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the drag and drop function allowing a user to configure objects in a visual design surface giving the developer detailed information about the objects in the Fowlow invention with the generation of query objects based on a schema of an underlying database in the Goldberg invention because the Fowlow invention discloses that detailed information about an object component available to the developer (column 9, lines 54 – 55) in the worksheet (a visual design surface), and one skilled in the art would logically include a data schema if a database resource was selected in a tiered distributed object system as taught by Goldberg (Abstract; column 2, lines 17 – 37).

*a Views module for generating the database views data for the records within the dataset based upon the corresponding views data from the database."*

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Fowlow does not disclose a view of database records, but Goldberg discloses a view of database records in constructing an SQL query (column 37, lines 51 – 65; Figure 8). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the drag and drop function allowing a user to configure objects in a visual design surface giving the developer detailed information about the objects in the Fowlow invention, with the generation of query objects based on a schema on an underlying database in the Goldberg invention in order to create views of the database, because the Fowlow invention discloses that detailed information about a resource is available to the developer (column 9, lines 54 – 55) in the worksheet (a visual design surface), and one skilled in the art would logically include a data schema to construct views for queries if a database resource was selected in a tiered distributed object system as taught by Goldberg (Abstract; column 2, lines 17 – 37).

**In regard to claim 25, incorporating the rejection of claim 19:**

*"... the typed dataset generation module further accepts an updated typed dataset module that has been edited by the properties edit module and generates the updated source code for the functions within the typed dataset module."*

Fowlow generates code for the application software under construction (Abstract), but does not accept an updated typed dataset module. However, Goldberg discloses query objects that encapsulate a specific query language and the database organization or schema, including typing. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the drag and drop function allowing code generation for the application software under construction in the Fowlow invention, with the generation of query objects based on a schema on an underlying database in the Goldberg invention in order to create views of the database with a query language, because the Fowlow invention discloses that detailed

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information about a resource is available to the developer (column 9, lines 54 – 55) in the worksheet (a visual design surface), and one skilled in the art would logically include a data schema to construct queries if a database resource was selected in a tiered distributed object system as taught by Goldberg (Abstract; column 2, lines 17 – 37).

**In regard to claim 26**, incorporating the rejection of claim 19:

*"...the init generation module comprises:*

*an Init Function module for generating the processing functions and methods within the programmable data object associated with the command adapter modules;*

*an InitDataSet module for generating the processing functions and methods within a programmable data object module associated with the type dataset class;*

*an InitConnection module for generating the processing functions and methods within the programmable data object associated with the data transfer connection between the programmable data object and the database."*

The Fowlow invention generates code corresponding to the connection (resource) in the design surface (column 11, lines 37 – 63) but does not teach using a data set. However, the Goldberg invention generates queries in a specific query language (column 2, lines 17 – 64). In order to develop a query it would be inherently necessary to initialize a function (a query object) and the dataset and establish a connection to the database. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the drag and drop function allowing code generation for the application software under construction in the Fowlow invention, with the generation of query objects based on a schema on an underlying database in the Goldberg invention in order to create views of the database with a query language, because the Fowlow invention discloses that detailed information about a selected object component



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available to the developer (column 9, lines 54 – 55) in the worksheet (a visual design surface), and one skilled in the art would logically include a data schema to construct queries if a database resource was selected in a tiered distributed object system as taught by Goldberg (Abstract; column 2, lines 17 – 37).

**In regard to claim 27, incorporating the rejection of claim 19:**

*"...the init generation module further accepts an updated Code Generated Method module that has been edited by the properties edit module and generates the updated source code for the functions within the command adapter modules."*

Fowlow discloses an editing module available to update code for the interface functions (column 13, lines 17 – 30).

### ***Response to Arguments***

6. Applicant's arguments filed on 11/17/2004 have been fully considered but they are not persuasive.

The Applicant has argued:

"In contrast, neither Fowlow nor Goldberg, alone or in combination discloses or suggests such a method. For example, Fowlow discloses an editor 800 for modifying various interfaces for use with the application being composed. Fowlow, col. 4, ll. 18-21; col. 13, ll. 17-30; and col. 14, ll. 43-58. However, Fowlow does not disclose or suggest identifying any other processing items containing references to data structures and functions edited, and updating the identified items containing references to the data structures and functions edited to make all references consistent with each other, as recited by claim 1. Goldberg likewise fails to disclose or suggest such a method."

Examiner's response:

Fowlow discloses at column 5, lines 34 – 40 that the processed items comprise data structures. The applied art in the last office action, therefore, overcomes the Applicant's

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objection. Additionally, Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. Consequently, the rejections stand as presented in the action.

### *Conclusion*

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Shrader whose telephone number is (703) 305-8046. The examiner can normally be reached on M-F 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence Shrader  
Examiner  
Art Unit 2193

2 August 2005

  
ANIL KHATRI  
PRIMARY EXAMINER